

BELL AND SPIGOT PIPE JOINT, AND METHOD OF INSERTING PIPE TO BELL AND SPIGOT PIPE JOINT

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Abstract of JP2002174383

PROBLEM TO BE SOLVED: To provide a bell and spigot pipe joint allowing the easy and quick insertion of one end of a pipe in a sealed and locked state. **SOLUTION:** A joint body 1 comprises inner and outer double cylinders 5 and 6 at one axial end, and a pipe inserting gap 12 is formed between the inner and outer double cylinders 5 and 6. An elastic seal ring 2 closely fitted to the inside surface of the pipe P is fitted to a seal ring groove 13 on the circumference of the inner cylinder 5. A radially contractible and expansible lock ring 3 having a biting tooth 27 to be bitten to the circumferential surface of the pipe P is fitted into the outer cylinder 6. A tapered ring 22 is fitted to the axial outer part of the inner cylinder 5 by the elastic seal ring 2 on the circumference of the inner cylinder 5 so that a taper 24 is turned to the deep side of the pipe inserting gap 12. According to the insertion of one end of the pipe P into the pipe inserting gap 12, the tapered ring 22 is pushed to push the elastic seal ring 2 into the seal ring groove 13 with the taper 24. Accordingly, the one end of the pipe P can be smoothly inserted without being caught by the elastic seal ring 2.

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